

RESULTS OF VOLATILE ORGANIC COMPOUND ANALYSIS FOR BASELINE SAMPLING PERIOD
WEST LAKE LANDFILL, BRIDGETON, MISSOURI
DRAFT TABLE PREPARED JUNE 26, 2014

Volatile Organic Compound	Screening Levels ¹		Station 1				Station 2			Station 3			Station 4					Station 5		
	Cancer Risk = 1E-06	Non-cancer HQ = 0.1	05/08/14	05/15/14	05/15/14 (dup)	05/23/14	05/08/14	05/15/14	05/23/14	05/08/14	05/15/14	05/23/14	05/08/14	05/08/14 (dup)	05/15/14	05/23/14	05/23/14 (dup)	05/08/14	05/15/14	05/23/14
Benzene	0.36	3.1	0.31 J	0.31 J	0.44 J	0.28 J	0.32 J	0.22 J	0.3 J	0.35 J	0.32 J	0.35 J	0.29 J	0.28 J	0.28 J	0.28 J	0.26 J	0.31 J	0.31 J	0.28 J
Benzyl chloride	0.057	0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Bromomethane	-	0.52	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	0.2 J	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Carbon tetrachloride	0.47	10	0.38 J	0.47 J	0.46 J	0.77 J	0.42 J	0.46 J	0.55 J	0.67 J	0.42 J	0.58 J	0.31 J	0.38 J	0.46 J	0.41 J	0.41 J	0.44 J	0.41 J	0.44 J
Chlorobenzene	-	5.2	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Chloroethane	-	1000	0.1 J	ND (0.092)	ND (0.092)	ND (0.13)	ND (0.092)	ND (0.092)	ND (0.11)	0.91	ND (0.092)	ND (0.15)	0.13 J	ND (0.092)	ND (0.092)	ND (0.092)	ND (0.18)	0.14 J	ND (0.092)	ND (0.096)
Chloroform	0.12	10	ND (0.19)	ND (0.19)	ND (0.19)	0.39 J	ND (0.19)	ND (0.19)	ND (0.19)	0.83 J	ND (0.19)	0.19 J	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Chloromethane	-	9.4	1.5	1.5 J	1.4 J	2.1	1.6	ND (1)	1.3	5	1.2 J	2	1.7	1.4	1.3 J	1.2	1.4	1.8	1.2 J	1.2
1,2-Dibromoethane (EDB)	0.0047	0.94	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	-	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,2-Dichlorobenzene	-	21	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
1,3-Dichlorobenzene	-	-	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
1,4-Dichlorobenzene	0.26	83	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	0.51 J	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	0.51 J	ND (0.38)
Dichlorodifluoromethane	-	10	2.2	2.1	2.7	2.4	2.5	2.3	2.6	2.7	2.4	2.7	1.8	2.1	1.8	2.2	2.3	2.1	1.8	2.3
1,1-Dichloroethane	1.8	-	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,2-Dichloroethane	0.11	0.73	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
1,1-Dichloroethene	-	21	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
cis-1,2-Dichloroethene	-	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
1,2-Dichloropropane	0.28	0.42	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	-	-	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
Ethylbenzene	1.1	100	0.39 J	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Hexachlorobutadiene	0.13	-	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	1.1 J	ND (0.83)
Methylene Chloride	100	63	0.91 J	ND (0.93)	1.9 J	ND (1.1)	4.5	ND (0.88)	ND (1.2)	1.3 J	ND (1.2)	ND (1.2)	0.95 J	0.77 J	ND (1)	ND (1.2)	ND (1.1)	1.9	2 J	ND (1.1)
Styrene	-	100	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,2-Trichloro-1,2,2-trifluoroethane	-	3100	1.2 J	0.66 J	0.62 J	0.63 J	0.67 J	0.62 J	0.67 J	0.61 J	0.59 J	0.72 J	0.65 J	0.58 J	0.62 J	0.58 J	0.58 J	0.64 J	0.59 J	0.58 J
1,2,4-Trichlorobenzene	-	0.21	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	0.96 J	ND (0.73)
1,1,1-Trichloroethane	-	520	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
1,1,2-Trichloroethane	0.18	0.021	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,2,4-Trimethylbenzene	-	0.73	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	0.5 J	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
1,3,5-Trimethylbenzene	-	-	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
1,1,2,2-Tetrachloroethane	0.048	-	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
Tetrachloroethene	11	4.2	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	0.54 J	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Toluene	-	520	0.85	0.87	2.3	0.83	0.79	0.78	1.4	1.1	0.88	1.7	0.8	1.1	0.61 J	0.95	0.8	1.3	1.4	1
trans-1,3-Dichloropropene	-	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Trichloroethene	0.48	0.21	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Trichlorofluoromethane	-	73	1.3	1.4	1.4	1.3 J B	1.3	1.4	1.3 B	1.3	1.5	1.4 B	1.4	1.1	1.7	1.2 J B	1.2 J B	1.5	1.5	1.2 J B
Vinyl chloride	0.17	10	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
m-Xylene & p-Xylene	-	10	1.3	ND (0.52)	0.72 J	ND (0.52)	0.53 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.54 J	ND (0.52)	1	ND (0.52)	ND (0.52)	ND (0.52)	0.77 J	ND (0.52)	ND (0.52)
o-Xylene	-	10	0.35 J	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	0.49 J	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)

Notes:

Shading indicates the concentration exceeds a screening level.

ND: Not detected (reporting limit)

J: Estimated result. Result is less than the reporting limit.